Sheet 1 of 5
Applicant: Mollenkopf et al.
Title: Facilitating Communication of Data Signals on
Electric Power Systems
Flied: December 21, 2001 Docket No.: CRNT-0022
Attorney: Vincent J. Roccia (215) 568-3100 1/5 Distribution Transformer Transformer Substation Distribution 107 120 Service Line Data Comm Line 122 Power Line Bridge 121 Substation Premises 106 ' Customer Data Transmission Tranmission Towers Line 114 Tranmission Lines High-Voltage High-Voltage 102 Internet 112 Power Generation Source Figure 1 Content Server 111

Sheet 2 of 5
Applicant: Mollenkopf et al.
Title: Facilitating Communication of Data Signals on
Electric Power Systems
Flied: December 21, 2001 Docket No.: CRNT-0022
Attorney: Vincent J. Roccia (215) 568-3100



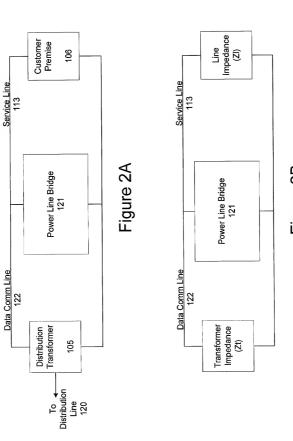


Figure 2B

Sheet 3 of 5 Applicant: Mollenkopf et al. Title: Facilitating Communication of Data Signals on Electric Power Systems Filed: December 21, 2001 Docket No.: CRNT-0022 Attorney: Vincent J. Roccia (215) 568-3100 3/5 Service Blocking Device 302 Service Line 113 Blocking Device 301 Customer Premise 106 Attachment Secondary Lugs 304 Data Comm Line 0 С 0 0 Power Line Transformer Distribution Bridge 121 105 0 0 0 Distribution Line Internet 1 112 Figure 3 120 Attachment Primary Lugs 303

> Substation Transformer 107

Sheet 4 of 5
Applicant: Mollenkopf et al.
Title: Facilitating Communication of Data Signals on
Electric Power Systems
Filed: December 21, 2001 Docket No.: CRNT-0022
Attorney: Vincent J. Roccia (215) 588-3100

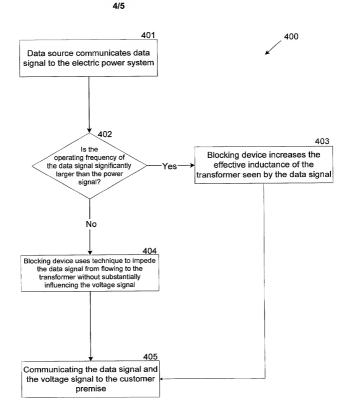


Figure 4

Sheet 5 of 5 Applicant: Mollenkopf et al. Title: Facilitating Communication of Data Signals on Electric Power Systems Filed: Desember 21, 2001 Docket No.: CRNT-0022 Attorney: Vincent J. Roccia (215) 568-3100



